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Garrett & Dunner 901 New York Avenue NW Washington, DC 20001-4413			KURTZ, BENJAMIN M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/552.629 TRYGGVASON ET AL. Office Action Summary Examiner Art Unit BENJAMIN KURTZ 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 01 September 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)\(\times\) Claim(s) 23.24.26-32.34.35.37.38.43.44.46-52.54.55 and 57-72 is/are pending in the application. 4a) Of the above claim(s) 61-69 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 23,24,26-32,34,35,37,38,43,44,46-52,54,55,57-60 and 70-72 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 07 October 2005 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 9/09.

Interview Summary (PTO-413)
Paper No(s)/Mail Date. \_\_\_\_\_.

6) Other:

5) Notice of Informal Patent Application

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### DETAILED ACTION

Claims 23, 24, 26-32, 34, 35, 37, 38, 43, 44, 46-52, 54, 55 and 57-72 are pending, claims 61-69 are withdrawn and claims 1-22, 25, 33, 36, 39-42, 45, 53 and 56 are cancelled.

# Claim Rejections - 35 USC § 102 and 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.
- Claims 23, 24, 26-32, 34, 38, 43, 44, 46-52, 54, 57, 59, 60, 70 and 71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson et al. US 4 784 495 in view of Banks US 4 885 083.

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Claim 23, Jonsson teaches a cartridge (10) comprising: a dissolvable particulate material (11), an inner space configured to house the dissolvable particulate material, an inlet, an outlet, and a filter (12) arranged at the outlet, the filter configured to permit passage of liquid containing the dissolved particulate material through the filter but to prevent passage of undissolved quantities of the dissolvable particulate material through the filter, wherein the filter permits the liquid to pass through the filter in a filter direction and the filter is formed by a filter element having a shape of a substantially planar disc (fig. 1). Jonsson does not teach at least one slit shaped opening.

Banks teaches a cartridge comprising: a particulate material, an inner space housing the particulate material, an inlet (25), an outlet (54) and a filter (22) arranged at the outlet, the filter configured to permit passage of a liquid through the filter but to prevent passage of the particulate material through the filter, wherein the filter permits the liquid to pass through the filter in a filter direction, wherein the filter includes at least one slit shaped opening having a first extension and a second extension, the second extension being substantially perpendicular to the filter direction and the first extension, wherein the second extension is significantly shorter than the first extension and is also significantly shorter than the length of the slit shaped opening in the filter direction, and wherein the filter is formed by a filter element having a shape of a substantially planar disc, the slit shaped opening extending through the filter element (fig. 1-2). The claim would have been obvious because the substitution of one known element, the filter of Banks, for another, the filter of Jonsson, would have yielded predictable results to one

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of ordinary skill in the art at the time of the invention, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

Claim 24, Jonsson further teaches the filter is a first filter, and wherein the cartridge also includes a second filter (12) arranged at the inlet, the second filter being configured to permit passage of the liquid through the second filter in a filter direction but to prevent passage of undissolved quantities of the dissolvable particulate material through the second filter (fig. 1). Jonsson does not teach at least one slit shaped opening in the second filter.

Banks further teaches a second filter (18) arranged at the inlet and the second filter being configured to permit passage of the liquid through the second filter is a filter direction but to prevent passage of the particulate material through the second filter, the second filter including at least one slit shaped opening having a first extension and a second extension, the second extension being substantially perpendicular to the filter direction and to the first extension, wherein the second extension of the second filter is significantly shorter than the first extension of the second filter and wherein the second filter is formed by a filter element, the slit shaped opening of the second filter extending through the filter element of the second filter (fig. 1-2). The claim would have been obvious because the substitution of one known element, the filter of Banks, for another, the filter of Jonsson, would have yielded predictable results to one of ordinary skill in the art at the time of the invention, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

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Claims 32, 34 and 38, Banks further teaches the first extension of both the first filter and the second filter is substantially perpendicular to the filter direction (fig. 1-2); both the first and second filters include a plurality of slit shaped openings, which extend through the filter element of the first and second filter (fig. 1-2); and wherein the slit shaped openings of the filter elements of the first filter and the second filter having a first end and a second end, wherein the second extensions of the slit shaped openings of the first and second filter increase from a minimum value at one end of each of the slit shaped openings to a maximum value at the other end of the openings (fig. 1-2).

Claim 44, Jonsson teaches a cartridge (10) including: a dissolvable particulate material (11), an inner space configured to house the dissolvable particulate material, an inlet, an outlet, and a filter (12) arranged at the inlet, the filter configured to permit passage of liquid through the filter but to prevent passage of undissolved quantities of the dissolvable particulate material through the filter, wherein the filter permits the liquid to pass through the filter in a filter direction and the filter is formed by a filter element having a shape of a substantially planar disc (fig. 1). Jonsson does not teach at least one slit shaped opening.

Banks teaches a cartridge including: a particulate material, an inner space housing the particulate material, an inlet (25), an outlet (54) and a filter (18) arranged at the inlet, and configured to permit passage of a liquid through the filter but to prevent passage of the particulate material through the filter, wherein the filter permits the liquid to pass through the filter in a filter direction, wherein the filter includes at least one slit shaped opening having a first extension and a second extension, the second extension

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being substantially perpendicular to the filter direction and the first extension, wherein the second extension is significantly shorter than the first extension and is also significantly shorter than the length of the slit shaped opening in the filter direction, and wherein the filter is formed by a filter element having a shape of a substantially planar disc, the slit shaped opening extending through the filter element (fig. 1-2). The claim would have been obvious because the substitution of one known element, the filter of Banks, for another, the filter of Jonsson, would have yielded predictable results to one of ordinary skill in the art at the time of the invention, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

Claims 52, 54, 57 and 59, Banks further teaches the first extension is substantially perpendicular to the filter direction (fig. 1-2); the filter includes a plurality of slit shaped openings which extend through the filter element (fig. 1-2); the filter includes a peripheral support portion connected to the filter element and abutting an inner wall of the cartridge (fig. 1-2); and the slit shaped opening of the filter element has a first end and a second end wherein the second extension of the slit shaped opening decreases from a maximum value at the first end of the slit shaped opening to a minimum value at the second end of the opening (fig. 1-2).

Claims 43 and 60, Jonsson in view of Banks teaches the cartridge of claims 24 and 44 but does not teach the filters or filter is made through an injection molding process. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability

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of a product does not depend on its method of production. If the product in the productby-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 227 USDQ 964 (1985). The process of making the filter of Banks is deemed a structural alternative to the process of injection molding.

Claims 26-30, 46-50, 70 and 71, Jonsson in view of Banks teaches the cartridge of claims 23, 24 and 44 but does not teach the specific dimensions of the second extension. The only difference between the prior art and the claimed invention is a recitation of relative dimension. [W]here the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device, *Gardner v. TEC Systems, Inc.*, 220 USPQ 777 (1984).

Claims 31 and 51, Banks teaches the filter of claims 24 and 44 but does not teach the filter being polypropylene or polycarbonate. Making parts of filters out of polymer material is very well known in the art and these polymers are very well known in the and would have been obvious to one of ordinary skill in the art at the time of invention because of their resistance to corrosion, ease of manufacture and relatively cheap cost.

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 Claims 35 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonsson '495 and Banks '083 as applied to claims 34 and 54 above, and further in view of O'Brien et al. US 1 932 117.

Jonsson in view of Banks teaches the cartridge of claims 34 and 54 44 but Banks does not teach the first extension of the filter or filters extends towards a center point of the filter element.

O'Brien teaches a filter (14) including at least one slit shaped opening having a first extension wherein the first extension extends towards a center point of the filter element (fig. 4).

The recited orientation of the slits is merely a rearrangement of the slits as taught by Banks. Shifting the position of an element is unpatentable if shifting the position of the element would not modify the operation of the device, *In re Japikse*, 86 USPQ 70 (1950). Furthermore, the recited orientation of the slits is known in the art as taught by O'Brien. The claim would have been obvious because a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art.

Claim 72 is rejected under 35 U.S.C. 103(a) as being unpatentable over
Jonsson '495 in view of Barlow US 6 776 907 and Weis et al. US 3 730 348.

Claim 72, Jonsson teaches a cartridge (10) including: a dissolvable particulate material (11), an inner space configured to house the dissolvable particulate material,

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an inlet, an outlet, at least a first filter (12) being a substantially planar disc arranged at the outlet and at least a second filter (12) arranged at the inlet and configured to permit passage of a liquid through the second filter, but to prevent passage of undissolved quantities of the dissolvable particulate material through the second filter, wherein the second filter permits the liquid to pass through the filter in a filter direction (fig. 1). Jonsson does not teach at least one slit shaped opening in the second filter or the second filter element having a conical shape.

Barlow and Weis each teach a filter (Barlow, (38); Weis, (40)) including at least one slit shaped opening, which has a first extension and a second extension being substantially perpendicular to the filter direction, and to the first extension, wherein the second extension is significantly shorter than the first extension and is also significantly shorter than the length of the slit shaped opening in the filter direction, and wherein the second filter is formed by a filter element having a conical shape, wherein the slit shaped opening extends through the filter element of the second filter (Barlow, fig. 1, 3, 4; Weis, fig. 1, 2 4, 5).

The claim would have been obvious because the substitution of one known element, the filter of either Barlow or Weis, for another, the filter of Jonsson, would have yielded predictable results to one of ordinary skill in the art at the time of the invention, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

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Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over
Jonsson '495 in view of Banks '083 as applied to claim 24 above, and further in view of Barlow US 6 776 907 and Weis et al. US 3 730 348.

Jonsson in view of and Banks teaches the cartridge of claim 24 but does not teach the second filter having a conical shape.

Barlow and Weis each teach a filter (Barlow, (38); Weis, (40)) including at least one slit shaped opening, which has a first extension and a second extension being substantially perpendicular to the filter direction, and to the first extension, wherein the second extension is significantly shorter than the first extension and is also significantly shorter than the length of the slit shaped opening in the filter direction, and wherein the second filter is formed by a filter element having a conical shape, wherein the slit shaped opening extends through the filter element of the second filter (Barlow, fig. 1, 3, 4; Weis, fig. 1, 2 4, 5).

The recited conical shaped filter element is merely a recitation of the shape of the filter element. The configuration of the apparatus is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration is significant, *In re Dailey*, 149 USPQ 47 (1966). Furthermore, the recited shape of the filter element is well known in the prior art as taught by Barlow and Weis. The claim would have been obvious because a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art.

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Claim 58 is rejected under 35 U.S.C. 103(a) as being unpatentable over
Jonsson '495 in view of Banks '083 as applied to claim 57 above, and further in view of Richmond US 5 545 318.

Jonsson in view of Banks teaches the filter and cartridge of claim 57 where the peripheral support portion has a peripheral surface but does not teach a plurality of ridges. Richmond teaches a peripheral support (66) for a filter that includes a plurality of ridges (88) projecting from the peripheral surface and abuts an inner wall of a cartridge, wherein a thin gap (90) is formed between the peripheral surface and the inner wall, the gap providing a further passage for fluid (fig. 4,8). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the peripheral support as taught by Richmond because the flange passages allow for increased flow through the filter (col. 6, lines 1-2).

#### Response to Arguments

Applicant's arguments with respect to claims 23, 44 and 72 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN KURTZ whose telephone number is (571)272-8211. The examiner can normally be reached on Monday through Friday 8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin Kurtz Examiner Art Unit 1797

/Krishnan S Menon/ Primary Examiner, Art Unit 1797